THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) Yes, Sir.

(b) Five US companies have entered into collaboration with Indian companies in the area of solar and wind energy. Details are given in the Annexed Statement (*See* below)

(c) So far no site specific proposal has been concretised.

(d) At present, no specific foreign funded or foreign assisted project is proposed for Andhra Pradesh.

Statement

1. MOU between M/s Bharat Electronics Ltd. of India and M/s Spire of US in the area of Solar Photovoltaics.

2. MOU between M/s Emgre Solar of India with M/s Martin Marietta of US in the area of Solar Photovoltaics.

3. MOU to establish a manufacturing line that will assemble photovoltaic modules of component manufactured in US between Solec, USA and Solec Pentafour, India.

4. MOU between Cannon Power, California, USA and Bangur Group of Calcutta to set up a 25 MW wind farm. Cannon is the first US Wind Energy Company to open a permanent office in India.

5. M/s Siemens Solar has announced commencement of their Indian operations in the area of solar photovoltaics.

Mini-Hydel Power Projects in the Country

3199. SHRI K.M. KHAN: Will the PRIME MINISTER be pleased to state:

(a) whether Government have set up Mini-Hydel Power Projects at different places of the country;

(b) if so, their locations, State and Union-Territory-wise, alongwith the share of the Union Government in each of them;

(c) whether any of such Mini-Hydel Power Projects have also been set up in Andhra Pradesh during 1991-92, 1992-93, 1993-94; and

(d) if so, the details thereof and if not, the reasons therefor with steps to be taken in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) to (d) Yes, Sir. Details of Small Hydro Power Projects upto 3 MW station capacity set up in various States, including Andhra Pradesh under the capital subsidy scheme of the Ministry of non-Conventional Energy Sources, are given in the annexed Statement.

Statement

Details of Small Hydro projects upto 3 MW capacity set up under MNES subsidy scheme

State	No of Projects	Total capacity (KW)	Total MNES subsidy (Rs./lakhs)
1. Haryana	1	300*	119.00
2. Himachal Pradesh	2	350	88.20
3. Uttar Pradesh	3	200	50.35
4. Andhra Pradesh	2	2000	179.00
5. Orissa	2	1150	135.00

*200 KW so far commissioned

UNDP Assistance for small Hydel Plants

3200. SHRI YERRA NARAYANA-SWAMY: Will the PRIME MINISTER be pleased to state:

(a) whether UNDP assistance is available for establishing small Hydel Plants in the hilly regions in India;

(b) whether UNDP assistance would be in the form of financial assistance or technical assistance;

(c) the details of UNDP assistance available for development of Non-conventional Energy through small Hydel Plants;

(d) whether the hilly areas in Andhra Pradesh have been surveyed and sites indentified for such plants with UNDP assistance; and

(e) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) to (c) Yes, Sir. UNDP/ GEF have approved a technical assistance project designed to assist the Govt. of India in the optimum development and utilisation of Small Hydel resources in the Himalayan and Sub-Himalayan regions of the country. The project to be implemented over a duration of 42 months envisages UNDP assistance of US $ 7.5 million and Indian counterpart funding of Rs. 22.48 crores in kind.

(d) and (e) As the Project Area comprises hilly areas of 13 States of the Himalayan and Sub-Himalayan regions, the hilly areas of Andhra Pradesh are not covered under the project.

Commissioning of Small Hydel Plants

3201. SHRI YERRA NARAYANASWAMY: Will the PRIME MINISTER be pleased to state:

(a) the details of provision made for loan by Indian Renewable Energy Development Agency (IREDA) in the 8th Plan period for Small Hydel Plants, State-wise;

(b) by when the Small Hydel Plants would be commissioned; and

(c) the steps proposed to increase the tempo of work and popularisation of small Hydel Plants?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) A target of loan amount of Rs.200.86 crores to be disbursed during the 8th Plan has been fixed. IREDA does not fix any State-wise targets. The projects are sanctioned as and when received from different entrep-reneurs.

(b) Small Hydel Plants are expected to be commissioned within 36 months from the zero date.

(c) Steps taken by IREDA include; Obtaining a World Bank line of credit of US $70 million exclusively for Small Hydel Sector, preparation of Manual on Small Hydro to help the entrepreneurs in preparing Detailed Project Reports and to implement the projects; organising Business Meets with prospective developers, conducting Workshops and Seminars on the subject; launching of information and dissemination compaigns to create greater awareness; and providing Consultancy Services, IREDA is also negotiating additional international bilateral assistance in Small Hydro Sector.

Financial Guarantees of Government on Non-Conventional Energy

3202. SHRI KANAKSINH MOHANSINH MANGROLA: Will the PRIME MINISTER be pleased to state:

(a) what is the percentage share of non-conventional energy in the total power generation in the country with sourcewise break up of solar, wind tidal etc;

(b) whether Government propose to increase share of non-conventional sources in total power generation of country; if so, how it is proposed to be done;

(c) whether Government are considering to put power generation from non-conventional sources at par with that of the traditional sectors with regard to minimum assured return on investment, financial guarantees of Union Government etc., if so, what are the details thereof; and

(d) if not, what are the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) The aggregate installed capacity for power generation through non-conventional energy sources is about 258 MW, (Wind-122 MW; small hydro;110 MW; biomass gasifier system-10 MW; solar photovoltaic systems-9 MW; bagasse co-generation-7.5 MW) which works out to be about 0.37% of the total power capacity in the country.

(b) Yes, Sir. The Government has prepared a new strategy and action plan in which, the original target of 600 MW for power generation from non-conventional energy sources has been raised to 2000 MW for Eighth Plan. For achieving this, the programmes are given market orientation to make the commercially viable and sustainable. Private sector is being